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CITY OF CALGARY
DEPARTMENT OF PUBLIC
HEALTH

Annual Report for the Year 1951

LOCAL BOARD OF HEALTH OF THE CITY OF CALGARY

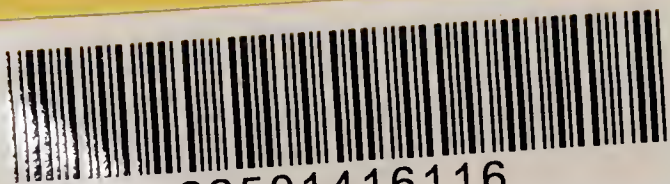
His Worship Mayor D. H. MACKAY, Chairman
and All Members of the City Council

Medical Officer of Health — W. H. HILL, B.A., M.D., C.M., D.P.H.

Asst. Medical Officer of Health — Leslie C. ALLAN,

M.D., Ch.B., D.P.H.

RCB/35q



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His Worship the Mayor, Commissioners, and
Members of the City Council.

Ladies and Gentlemen:

I beg herein to submit the annual report of the activities of the City's Health Department for the year 1951.

VITAL STATISTICS

The population of the City, as shown by Government census of June 1951, was 129,060. It will be observed that the rates having to do with the several tables presented herein are lower than those that have obtained in the last several reports. This is by reason of the new census figure which is 25,000 in excess of the last determination of the population by the City Clerk. The population figure that had been shown was 106,000. It will be obvious that as the several rates are expressed in relationship to the population, or certain numbers of it, the rates will be lower by reason of the City's increased population.

MARRIAGES

The number of marriages solemnized during 1951 was 1,948 as compared with 1,845 during 1950. It has been pointed out in previous reports that unsettled conditions have a tendency to increase the number of marriages. This has always shown to be the history in all countries and specifically reflects the reaction of the population to a state of war or near war.

The number of marriages was 103 in excess of those reported in 1950. The rate per 1,000 of population for 1951 is 15.1.

BIRTHS

The number of births registered throughout the year was 4,608 which figure includes those non-resident in the City or, in other words, the gross figure. The rate per 1,000 of population gross is 35.7. The number of births to residents only was 3,710 with a net birth rate per 1,000 of population of 28.7. It will be observed that both the gross and the net rates in regard to births are less than were shown in the 1950 report, this, by reason of the fact that the number of births is based on the increased population of the City, whereas in fact the numbers show an increase of 589 gross and 616 net. In previous years something of an analysis respecting birth rates in general has been undertaken. It is not thought necessary to further clarify the picture at the present time.

The gross number of births (4,608) includes 276 illegitimate. This figure is an increase of 11 over the number of illegitimate births reported in 1950 and represents 6% of the gross total of births. There was one set of illegitimate twins. The table showing the breakdown of the number of illegitimate births gives an analysis of this social problem and much for thoughtful speculation.

Reference to the age group of the mothers shows the most births in the grouping from 20 - 24 years. This age group of mothers is usual. Reports from all centres show increases in the illegitimate birth figure from year to year.

ILLEGITIMATE BIRTHS 1951

	City	Out	14	15	16	17	18	19	20 24	25 30	31& over	1st cld	2nd cld	Prev mge	Total
Jan	15	7	-	-	1	-	-	5	13	3	-	18	4	2	22
Feb	13	7	-	-	1	-	3	3	9	2	2	16	4	3	20
Mar	21	10	-	-	1	2	4	5	11	5	3	24	7	3	31
Apl	5	5	-	1	1	1	-	-	3	4	-	7	3	-	10
May	19	12	-	-	-	3	1	4	19	2	2	22	9	4	31
Jun	14	9	-	-	-	3	2	3	11	3	1	20	3	1	23
Jly	17	5	-	-	1	-	3	1	7	7	3	17	5	3	22
Aug	18	10	-	1	-	-	3	1	9	5	9	16	12	6	28
Sep	16	8	-	-	2	3	3	-	10	6	-	17	7	2	24
Oct	15	8	-	-	-	1	2	6	5	8	1	16	7	6	23
Nov	15	11	-	2	-	3	1	6	9	5	-	26	-	1	26
Dec	15	1	1	-	1	-	-	2	5	3	4	12	4	3	16
Totals	183	93	1	4	8	16	22	36	111	53	25	211	65	34	276

STILLBIRTHS

The gross number of stillbirths registered was 82, showing a rate of 0.64 per 1,000 of population. The net stillbirth rate was 0.5 with 64 stillbirths born to resident mothers. There is a slight increase in the stillbirth rates as compared with the figures shown in the 1950 report. The stillbirth problem has been analyzed repeatedly over the last few years and it is not felt that anything can be added at the present time to what has already been said.

DEATHS

The gross death rate for the City in 1951 was 12.3 per 1,000 population, represented by 1,314 deaths. The net, or actual City rate, was 8, the number of deaths occurring amongst residents only, being 1,052.

It will be observed that both gross and net death rates show a decrease in comparison with the figures that have been submitted over the last five years. This is of greater significance by reason, as stated before, of the basis represented by the increased population. Mortality tables, insofar as the City of Calgary goes, show little in variance in the number of deaths from year to year. From the population angle, the City has shown an increasing stability.

It will be noted that 60% to 70% and better of deaths recorded occur amongst the age group of 60 years and upward.

It is impossible to differentiate between those who resided in the City before death and those who did not and in the analysis of tables of causes of

death, further remarks in connection with deaths and death rates will, of necessity, apply to the gross figure only.

The first six causes of death were as follows:

1. Diseases of the heart, arteries, kidneys, including apoplexy	561
2. Cancer - all forms	220
3. Violent and accidental deaths	55
4. Pneumonia	40
5. Diabetes	17
6. Influenza	10
	<u>903</u>
All other causes	<u>411</u>
making a gross total of	<u>1,314</u>

Diseases of the heart, arteries, kidneys, including apoplexy

The number of deaths listed in this category throughout 1951 shows an increase of 7. Increase or decrease in this classification is not of any particular significance. The figures will undoubtedly vary from year to year. Under this particular classification occurs by far the most deaths in any year. As a matter of fact, one out of every two deaths is related to diseases of the heart. It has been pointed out that many of these deaths could be avoided if people availed themselves of annual medical examination. Death occurs quite frequently without previous knowledge that there is a heart lesion and it is obvious that if annual medical examinations were generally undertaken, much could be done in the way of improvement in the mortality tables. Our present way of life does not seem to take into any account stress that is laid on the life of the individual.

Cancer - all forms (Malignant)

The number of deaths reported as being due to cancer in 1951 was 220, a decrease of 22 as compared with the figure reported last year. A good deal of activity in the investigation of the cause of cancer is presently being undertaken and the research work thus started will undoubtedly increase. However, at the present moment cancer exacts its toll today and in greater measure than it did thirty years ago, although it must be admitted that what is certainly ~~in~~ creased incidence, is due to the more ready recognition of the disease, as the result of advances in diagnostic methods.

It is essential that we discover the inciting agent that gives impetus to the riotous multiplication of vegetative cells that give rise to the condition. It is further essential that early diagnosis of cancer be made, for in early diagnosis is the one hope that we have governing the efficacy of our known measures of treatment.

Violent and Accidental Deaths

It will be noted that violent and accidental deaths occurred to the number of 55 during the year, a decrease of 16 as compared with the figures for 1950. This is very definitely an improvement but whether it means anything or not, is the question. Accidents and resulting deaths relating to travel are still uppermost in this category, and whether it can be assumed that there has been a keener appreciation of the rules of the road and the rights of others, is a moot question. However, there is a decrease of 16 in the number of deaths as compared with last year and it is to be hoped that subsequent years will continue to show a decrease.

Pneumonia

Deaths under this heading numbered 40 during the year, an increase of 9 as compared with the figures for 1950. Pneumonia, as has been pointed out before, is a disease of the very young and the very old and by reason of this fact, it is not at all likely that the picture relating to pneumonia will ever be entirely wiped out. There has been a very decided advance in treatment methods over the last ten or fifteen years and it does appear that the fear that attached to this disease of some years ago, is fast disappearing.

Diabetes

Diabetes accounted for 17 deaths during 1951, an increase of 8 when compared with the last reporting. It would appear that whereas there has been a tremendous improvement in the treatment of diabetes, this reporting would still point to the fact that beyond middle life the disease is going to exact its toll in spite of treatment. Fourteen of the deaths were in the 45 years and over age group.

Influenza

Deaths from this disease did not constitute one of the six main causes in the reporting of last year. 10 deaths were reported from influenza in 1951. There were only 4 deaths reported in 1950. Deaths from influenza are always prone to occur, depending on the extent of an outbreak of this disease. The variation in the figures is of scant significance in this regard.

Tuberculosis

4 deaths from tuberculosis were reported in 1951.

INFANT MORTALITY

The number of infant deaths registered was 126, a rate of 27.3 per 1,000 live births. This reporting shows an increase in both number and rate as compared to the situation in 1950. The increase in number was 15. These reportings include the deaths of non-resident babies and are therefore gross.

It has been pointed out on a number of previous occasions that certain causes in infant deaths seem to be beyond any scope of control. Reference is made to the conditions of prematurity, congenital debility and malformation and injuries at birth. These three causes account for the majority of infant deaths and there is little or nothing that can be done about it. 87 deaths of the 126 resulted from the three causes as given.

MATERNAL DEATHS

It is indeed tragic to have to report the deaths of mothers from causes attributable to the maternal state and two such deaths were reported in 1951, with a rate of 0.43 per 1,000 live births. It will be noted from the table governing that one resident mother and one non-resident mother constituted the two. In any event, the maternal death rate as it applies to 1951 is the lowest death rate under this classification that has occurred in Calgary for many years.

COMMUNICABLE DISEASE

The total number of communicable disease cases reported during the year was 4,735 of which 1,971 are listed in the so-called minor group.

Scarlet Fever, which has been particularly troublesome for the last year or two, showed an incidence of 297 cases.

Deaths occurring from communicable disease are as follows:

Pneumonia - all forms	40	
Influenza	10	
Tuberculosis - all forms	4	(Reported elsewhere)
Acute Anterior Poliomyelitis	2	
Septic sore throat	<u>1</u>	
	<u>57</u>	

IMMUNIZATION

A very considerable demand for the services of the Immunizing Division maintained throughout the whole of 1951. As was the case last year, a good many of our citizens decided to visit their homelands and needed to be immunized as a legal requirement. Such people were in considerable number.

The department has continued to concentrate on publicizing the need for children to be immunized against such diseases as whooping cough, diphtheria, smallpox and tetanus. There has been a very nice response in this regard. The response, however, regardless of its quality, is not in accord with our expectations. The department would wish to see all children immunized against these diseases.

The table covering this phase of Departmental activities is given for the information of Council.

PUBLIC HEALTH NURSES' REPORT

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Total
Inoculations	642	602	815	711	987	633	525	545	455	608	696	491	7710
Swabs taken					4	1							5
Vaccinations	139	376	153	300	217	143	31	93	58	94	141	32	1777
Dick Tests	2		36		1	2				50			91
Schick Tests	39	42	74	57	34	24	25	1	32	81	32	13	454
Tuberculin Tests		45	25	40					25	69	20	20	244
Investigations made	18	14	11	19	17	13	16	8	8	15	32	24	195
Total visits made	115	78	84	92	101	107	107	148	90	97	97	91	1207
First aid treatments given					2	2	3		1	2			10

OTHER DEPARTMENTS AND ASSOCIATIONS

A very considerable amount of work is undertaken by the Health Department for other City departments, notably Relief, Land, Legal, Police, Fire and the Transit System. This work is attended to as the department can find the time

and the work, itself, has increased in very considerable degree. However, the services as rendered have most certainly been appreciated and it is a pleasure for this department to assist other departments to the fullest possible extent.

EDUCATIONAL

A good deal in intensification in our educational programme was undertaken during 1951 and this, in addition to a series of broadcasts, covered a number of Public Health activities that were given by the Medical Officer of Health and his associate, Dr. Allan. We have endeavoured for a number of years to stimulate public consciousness regarding values that accrue from introducing measures designed in furthering and maintaining a healthy community. Lectures and talks have been given to a number of communal groups and the school nursing staff has been responsible for many health talks throughout the school system. We have been fortunate in being able to illustrate our talks by films. It was reported last year that the department now has a sound projector and screen enabled through a grant from the Federal Government. Much of this work is attended to after ordinary business hours and this fact is mentioned in passing.

A number of reports by those in charge of the various branches of the department are shown throughout the report.

CONCLUSION

The Health Department deeply appreciates the constructive help, kindly advice and guidance given throughout the year by the following:

His Worship The Mayor, Commissioners and Members of the City Council
 The Provincial Department of Health
 The Members of the Calgary Public and Separate School Boards
 The Superintendent and Staff of the Central Alberta Sanatorium
 The Superintendent and Staff of the Provincial Mental Hospital
 The Alberta and the Calgary Tuberculosis Associations
 The Calgary Kinsmen's Club
 The Metropolitan Life Insurance Company
 The Victorian Order of Nurses
 The Calgary General Hospital and Staff
 The Calgary Medical Society
 The Calgary Daily Herald and the Calgary Albertan
 The Radio Broadcasting Stations
 The Heads and Staffs of the several City departments with
 whom we have been associated in the conduct of civic affairs

The Medical Officer of Health again wishes to take the opportunity to offer his grateful thanks to the entire staff and its associates. The manner in which each and every member of the staff has performed his or her work is little short of remarkable and the spirit of loyalty and co-operation that has always obtained adds much in incentive to go forward.

Respectfully submitted

W.H. HILL, M.D., C.M., D.P.H.,
 Medical Officer of Health,
 City of Calgary, Alberta.

Vital Statistic Tables, in accordance with the form approved by The Canadian Public Health Association, follow:

VITAL STATISTICS REPORT

Population as shown by Government Census of June 1951 was 129,060

Live births 4608 Rate per 1,000 population 35.7
 Stillbirths 82 Rate per 1,000 live births 17.8
 Included in above were 898 non-resident births and
 18 non-resident stillbirths.

TABLE No. 1

LIVE BIRTHS 1947 - 1951

Year	Population	No. including non-residents	Rate per 1,000 population	No. Residents only	Rate per 1,000 population
1951	129,060	4608	35.7	3710	28.7
1950	106,000	4019	37.9	3094	29.2
1949	106,000	4080	38.5	3186	30.1
1948	100,044	3835	38.3	2956	29.5
1947	100,044	4056	40.5	3049	30.47

TABLE No. 2

STILLBIRTHS 1947 - 1951

Year	Population	No. including non-residents	Rate per 1,000 population	No. Residents only	Rate per 1,000 population
1951	129,060	82	0.64	64	0.5
1950	106,000	67	0.63	48	0.47
1949	106,000	79	0.74	65	0.61
1948	100,044	77	0.77	54	0.54
1947	100,044	76	0.76	62	0.62

MARRIAGES

Number performed in 1951 was 1948. Rate per 1,000 population 15.1

DEATHS

From all causes a total of 1314 deaths were reported, being a rate of 10.2 per thousand population, including 262 deaths of non-residents.

TABLE No. 3

MORTALITY RATE (exclusive of stillbirths) 1947-1951

Year	No. deaths including non-residents	Rate per 1,000 population	No. Residents only	Rate per 1,000 population
1951	1314	10.2	1052	8.0
1950	1308	12.3	1048	9.9
1949	1329	12.5	1035	9.8
1948	1294	12.9	1028	10.3
1947	1200	11.99	966	9.65

TABLE No. 4

CHIEF CAUSES OF DEATHS 1949, 1950 and 1951 (total number including non-residents)

Cause of death	Number of deaths			Rate per 100,000		
	1951	1950	1949	1951	1950	1949
Diseases of the heart, arteries, and kidneys, including apoplexy	561	554	598	434.7	522.6	564.1
Cancer - all forms	220	242	218	170.0	228.3	205.7
Pneumonia	40	31	45	31.0	29.2	42.4
Violent and accidental deaths	55	71	46	42.6	67.0	43.4
Tuberculosis - all forms	4	5	6	3.1	4.7	5.7
Diabetes	17	9	18	13.2	8.5	17.0
Influenza	10	4	3	7.7	3.8	2.8
Communicable diseases (other than Tuberculosis, pneumonia and influenza)	6	3	1	4.6	2.8	0.9
All other causes	392	389	394	303.7	367.0	371.6
Totals	1314	1308	1329			

INFANT MORTALITY

The Infant Mortality Rate for the municipality, including deaths of non-residents, is presented in the following tables for the year 1951 and the preceding four years.

TABLE No. 5

DEATHS OF INFANTS IN THE FIRST YEAR OF LIFE 1947-1951 (total number, including non-residents)

	1951	1950	1949	1948	1947
Number of infant deaths	126	111	116	141	126
Rate per 1,000 live births	27.3	27.6	28.4	36.8	31.0

Number of deaths of non-residents included in the above:
1951 = 36, 1950 = 26, 1949 = 35, 1948 = 31, and 1947 = 25

TABLE No. 6

INFANT MORTALITY BY CAUSES OF DEATHS 1947-1951

Causes of deaths	1951	1950	1949	1948	1947
1. Diarrhoea and enteritis	4	1	3	5	9
2. Pneumonia and influenza	12	8	10	17	11
3. Prematurity	55	50	47	47	50
4. Congenital debility and malformations	27	34	15	20	34
5. Injuries at birth	5	8	15	19	8
6. Acute communicable diseases (whooping cough, diphtheria, measles, scarlet fever, etc.)	-	-	-	5	1
7. Other causes	23	10	26	28	13

Of the 126 infant deaths registered this year, 50 occurred within the first twenty-four hours, 31 within the first week and 11 died under the age of one month, representing 73.0 per cent of the total.

MATERNAL DEATHS

The number of deaths of mothers from puerperal causes was 2. There was 1 non-resident death. The rate for the municipality is 0.27 per 1,000 live births.

TABLE No. 7MATERNAL MORTALITY (including non-residents) 1947-1951

Year	Live births	Number of maternal deaths	Rate per 1,000 live births
1951	4608	2	0.43
1950	4019	4	1.0
1949	4080	3	0.7
1948	3835	5	1.3
1947	4056	3	0.98

Number of deaths of non-residents included
in above:

1951 - 1, 1950 - 3, 1949 - 1, 1948 - 0, and 1947 - 0.

TABLE No. 8CAUSES OF MATERNAL DEATHS 1951

Cause of death	Number, including non-residents	Residents only
Abortions (septic and non-septic)	-	-
Puerperal toxæmias	1	-
Puerperal sepsis	-	-
Other puerperal causes	1	1

From the following table the part played
by certain diseases is at once evident:

TABLE No. 9

COMMUNICABLE DISEASES (residents only)
REPORTED CASES AND DEATHS FROM COMMUNICABLE DISEASES 1951

	Cases		0-4 years		5-14 years		15 & over		Totals	
	M	F	Cases	Dth's	Cases	Dth's	Cases	Dth's	Cases	Dth's
Cer. Spinal Meningitis	2	1	1	-	2	-	-	-	3	-
Chickenpox	335	343	126	-	544	-	8	-	678	-
Diphtheria	-	-	-	-	-	-	-	-	-	-
German Measles (Rubella)	188	220	52	-	332	-	24	-	408	-
Influenza	-	-	-	-	-	-	-	10	-	10
Measles	901	854	399	-	1325	-	31	-	1755	-
Mumps	547	492	115	-	841	-	83	-	1039	-
Paratyphoid Fever	-	-	-	-	-	-	-	-	-	-
Pneumonia (all forms)	-	-	-	9	-	-	-	31	-	40
Ant. Poliomyelitis	3	3	-	-	2	-	4	2	6	2
Puerperal Septicaemia	-	-	-	-	-	-	-	-	-	-
Scarlet Fever	297	296	132	-	420	-	41	-	593	-
Septic Sore Throat	-	-	-	1	-	-	-	-	-	1
Smallpox	-	-	-	-	-	-	-	-	-	-
Tuberculosis (all forms)	68	76	5	-	5	-	134	4	144	4
Typhoid Fever	-	-	-	-	-	-	-	-	-	-
Tetanus	-	-	-	-	-	-	-	-	-	-
Undulant Fever	-	-	-	-	-	-	-	-	-	-
Whooping Cough	48	61	42	-	67	-	-	-	109	-
Totals:	2389	2346	872	10	3538	-	325	47	4735	57

IMMUNIZATION REPORT 1951

	Quantity distribut- ed by Health Department (enough for)	Number of persons given complete treatment by the Health Dept.	Reinforc- ing doses given
Diphtheria Toxoid	829	294	268
Smallpox Vaccine	7012	1777	-
Scarlet Fever Toxin	232	12	4
Pertussis Vaccine	314	65	479
Combined Pertussis & Diphtheria	836	12	125
Triple Toxoid	1624	951	66
Anti-Measles Serum	190	5	-
T.A.B.T.	28	10	1
Tetanus Toxoid	20	3	-
Typhoid & Paratyphoid	507	29	-

TABLE No. 10

REPORTED CASES AND DEATHS FROM TUBERCULOSIS 1947-1951

Year	Cases	Number of deaths in City	Number of deaths in Sanatoria	Total deaths	Rate per 100,000 population
1951	144	4	12	16	12.4
1950	39	5	13	18	17.0
1949	55	6	5	11	10.4
1948	43	8	11	19	18.9
1947	192	11	11	22	22.0

TABLE No. 11

REPORTED CASES AND DEATHS FROM SCARLET FEVER,
DIPHTHERIA, WHOOPING COUGH and MEASLES, 1949-1951

	Cases			Deaths			Mortality rate per 100,000 population		
	1949	1950	1951	1949	1950	1951	1949	1950	1951
Scarlet Fever	252	414	593	-	-	-	-	-	-
Diphtheria	-	-	-	-	-	-	-	-	-
Whooping Cough	16	14	109	-	-	-	-	-	-
Measles	1663	108	1755	1	-	-	0.9	-	-

There were no non-resident deaths from the above diseases in 1951.

Table 1.1

Table 1.1

Table 1.1

10	100
20	200
30	300
40	400
50	500
60	600
70	700
80	800
90	900
100	1000

Table 1.1

Table 1.1

Table 1.1	Table 1.1	Table 1.1	Table 1.1	Table 1.1
10	100	1000	10000	100000
20	200	2000	20000	200000
30	300	3000	30000	300000
40	400	4000	40000	400000
50	500	5000	50000	500000
60	600	6000	60000	600000
70	700	7000	70000	700000
80	800	8000	80000	800000
90	900	9000	90000	900000
100	1000	10000	100000	1000000

Table 1.1

Table 1.1

Table 1.1	Table 1.1	Table 1.1	Table 1.1	Table 1.1	Table 1.1	Table 1.1
10	100	1000	10000	100000	1000000	10000000
20	200	2000	20000	200000	2000000	20000000
30	300	3000	30000	300000	3000000	30000000
40	400	4000	40000	400000	4000000	40000000
50	500	5000	50000	500000	5000000	50000000
60	600	6000	60000	600000	6000000	60000000
70	700	7000	70000	700000	7000000	70000000
80	800	8000	80000	800000	8000000	80000000
90	900	9000	90000	900000	9000000	90000000
100	1000	10000	100000	1000000	10000000	100000000

TABLE No. 12

REPORTED CASES AND DEATHS FROM TYPHOID FEVER 1947-1951

Year	Cases Residents only	Number of deaths including deaths of non-residents	Rate per 100,000 population, includ- ing non-residents
1951	-	-	-
1950	1	-	-
1949	-	-	-
1948	1	-	-
1947	2	-	-

SERA AND VACCINE DISTRIBUTED FOR USE IN CALGARY 1951

Diphtheria Antitoxin, syringe packages,	20,000 units	3
" " " "	5,000 "	-
" " " "	1,000 "	1
Scarlet Fever Antitoxin, syringe packages	9,000 "	341
" " " "	3,000 "	74
Diphtheria Toxoid, packages for one person		583
" " " " six persons		-
" " " " twelve "		41
Material for the Dick Test		45
Material for the Schick Test		89
Scarlet Fever Toxin, packages for one person		232
Pertussis Vaccine, packages for one person		302
Combined Pertussis Vaccine and Diphtheria Toxoid (packages for one person)		836
Combined Pertussis Vaccine, Diphtheria Toxoid and Tetanus Toxoid (packages for one person		1624
Gas Gangrene Antitoxin, packages of 4,000 units		33
" " " packages of 10,000 "		1
Tetanus Antitoxin, syringe packages, 10,000 "		17
" " " " 1,500 "		137
Staphylococcus Toxoid 2 cc vials		38
Anti-Measles Serum, 5 cc vials		190
Tetanus Toxoid, packages for one person		20
T.A.B.T. (Tetanus Toxoid and Typhoid and Paratyphoid Vaccine) 3 cc vials		28
Combined Diphtheria Toxoid and Tetanus Toxoid each for one person		2
Smallpox Vaccine		7012
Typhoid and Paratyphoid Vaccine for one person		45
" " " " 10 cc vials		77

All of the above material supplied free by the Provincial
Department of Health, Edmonton, and all are products of
The Connaught Laboratories, University of Toronto, Toronto, Ontario.

Received of the Treasurer of the
Board of Education the sum of
\$100.00 for the year 1914.
This receipt is given in full
for the amount due to the
Board of Education for the year 1914.

Witness my hand and seal this
1st day of January 1914.
Attest:
The Treasurer of the Board of Education
The Board of Education
The City of New York

Received of the Treasurer of the
Board of Education the sum of
\$100.00 for the year 1914.
This receipt is given in full
for the amount due to the
Board of Education for the year 1914.

CAUSES OF DEATH BY AGE AND SEX (gross) 1951

	Males	Females	under 24 hours	under one year	1 to 4 years	5 to 19 years	20 to 39 years	40 to 59 years	60 yrs and over	Totals
1. Infective and Parasitic Diseases	12	3	-	-	1	1	3	4	6	15
2. Neoplasms	130	114	-	-	2	3	15	56	168	244
3. Allergic, Endocrine System, Metabolic and Nutritional Diseases	13	9	-	2	-	-	3	2	15	22
4. Diseases of the blood and blood-forming organisms	2	1	-	-	-	-	1	-	2	3
5. Mental, Psychoneurotic, and Personality disorders	3	1	-	1	-	-	1	1	1	4
6. Diseases of the Nervous System and Sense Organs	43	36	-	2	1	-	4	8	64	79
7. Diseases of the Circulatory System	349	196	-	-	-	3	7	89	446	545
8. Diseases of the Respiratory System	47	28	-	10	3	-	4	6	52	75
9. Diseases of the Digestive System	36	21	-	5	0	0	4	22	26	57
10. Diseases of the Genito-Urinary System	29	10	-	-	1	-	2	8	28	39
11. Diseases and complications of pregnancy childbirth and puerperium	-	2	-	-	-	-	2	-	-	2
12. Diseases of the Skin and Cellular Tissue	2	-	-	-	-	-	-	-	2	2
13. Diseases of the Bones and Organs of Movement	-	1	-	-	-	-	-	-	1	1
14. Congenital malformations	17	10	4	22	-	1	-	-	-	27
15. Certain diseases of early infancy	49	29	38	40	-	-	-	-	-	78
16. Symptoms, Senility, and Ill-defined Conditions	39	27	-	-	-	-	-	-	66	66
17. Accidents, poisonings and violence	31	24	-	2	3	3	18	9	20	55
TOTALS	802	512	42	84	11	11	64	205	897	1314
Supplementary classifications for stillbirths	43	39								82

COMMUNICABLE DISEASES REPORTED 1951

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Total
Chickenpox	71	73	12	11	41	70	23	15	24	95	150	93	678
Diphtheria	-	-	-	-	-	-	-	-	-	-	-	-	-
Erysipelas	1	1		1									3
Measles	15	25	17	24	104	197	92	26	47	299	558	351	1755
Meningitis (Meningococcic)	-	-	-	-	-	-	-	1	-	-	2		3
Mumps	357	277	121	117	90	50	3	1	8	7	5	3	1039
Paratyphoid Fever	-	-	-	-	-	-	-	-	-	-	-	-	-
Poliomyelitis (Ant.)	-	-	-	-	-	-	-	3	1	1	-	1	6
Rubella (German Measles)	20	54	50	62	90	81	5	6	8	18	8	6	408
Scarlet Fever	56	27	31	53	86	116	46	10	18	28	37	85	593
Smallpox	-	-	-	-	-	-	-	-	-	-	-	-	-
Pul. Tuberculosis	15	19	19	4	17	20	17	18	7	1	4	3	144
Typhoid Fever	-	-	-	-	-	-	-	-	-	-	-	-	-
Undulant Fever	-	-	-	-	-	-	-	-	-	-	-	-	-
Whooping Cough	2	-	4	2	6	6	3	3	5	15	33	30	109
Totals:	537	476	254	274	434	540	189	83	118	464	797	572	4738

Not included in the above are the following cases brought to Calgary from out-of-town for treatment in Calgary Hospitals.

Scarlet Fever	33
Ant. Poliomyelitis	12
Measles	2

THE HISTORY OF THE UNITED STATES

CHAPTER I
THE DISCOVERY OF AMERICA
The first discovery of America was made by Christopher Columbus in 1492. He was an Italian explorer who sailed for Spain. He discovered the New World on October 12, 1492. This event marked the beginning of European exploration and colonization of the Americas.

CHAPTER II
THE EARLY YEARS
The early years of the United States were marked by the struggle for independence from Great Britain. The American Revolution began in 1775 and ended in 1783. The United States Declaration of Independence was signed on July 4, 1776. The Constitution of the United States was signed on September 17, 1787.

CHAPTER III
THE GROWING NATION
The growing nation of the United States faced many challenges in the early years. The country was a collection of thirteen colonies, each with its own interests and desires. The struggle for a unified government led to the creation of the Constitution. The country grew in size and population, and the economy began to develop.

CHAPTER IV
THE WESTWARD EXPANSION
The westward expansion of the United States was a major theme in the country's history. The desire for land and resources led to the exploration and settlement of the western territories. The Louisiana Purchase of 1803 was a major event in this process. The expansion of the country led to the discovery of gold and other valuable resources.

CHAPTER V
THE CIVIL WAR
The Civil War was a major event in the history of the United States. It was fought between the Northern states and the Southern states from 1861 to 1865. The war was fought over the issue of slavery. The Union emerged victorious, and slavery was abolished. The Civil War led to the Reconstruction era and the passage of the Civil Rights Act of 1866.

CHAPTER VI
THE RECONSTRUCTION ERA
The Reconstruction era was a period of rebuilding the South after the Civil War. It lasted from 1865 to 1877. The federal government sought to integrate the South and protect the rights of African Americans. The Reconstruction era was marked by the passage of the Reconstruction Acts and the establishment of the Freedmen's Bureau.

CHAPTER VII
THE Gilded Age
The Gilded Age was a period of rapid economic growth and industrialization in the United States. It lasted from the 1870s to the 1900s. The country saw the rise of big business and the accumulation of vast wealth by a few individuals. The Gilded Age was also marked by social problems and the rise of the Progressive Movement.

CHAPTER VIII
THE PROGRESSIVE ERA
The Progressive Era was a period of social and political reform in the United States. It lasted from the 1890s to the 1920s. Progressives sought to address the problems of the Gilded Age and improve the lives of the average citizen. The Progressive Era led to the passage of many important laws and the establishment of new government agencies.

CHAPTER IX
THE INTERWAR PERIOD
The interwar period was a time of relative peace and stability in the United States. It lasted from the end of World War I in 1918 to the beginning of World War II in 1941. The country saw economic growth and the rise of the automobile industry. The interwar period was also marked by the Red Scare and the passage of the Immigration Act of 1924.

CHAPTER X
WORLD WAR II
World War II was a major event in the history of the United States. It was fought between the United States and the Axis powers from 1941 to 1945. The United States played a key role in the Allied victory. World War II led to the end of the war with Japan and the beginning of the Cold War.

CHAPTER XI
THE COLD WAR
The Cold War was a period of tension and conflict between the United States and the Soviet Union. It lasted from the end of World War II in 1945 to the fall of the Soviet Union in 1991. The Cold War was marked by the arms race and the Cuban Missile Crisis. The Cold War led to the passage of the Civil Rights Act of 1964 and the Vietnam War.

CHAPTER XII
THE POST-COLD WAR ERA
The post-Cold War era is a period of relative peace and stability in the United States. It lasted from the end of the Cold War in 1991 to the present. The country has seen economic growth and the rise of the Internet. The post-Cold War era is also marked by the 9/11 attacks and the War on Terror.

INTERNATIONAL STATISTICAL CLASSIFICATION OF DISEASES,
INJURIES AND CAUSES OF DEATH

	M	F	City	Out	Total
002 Pulmonary tuberculosis	3	1	4		4
022 Aneurysm or aorta		1		1	1
023 Other cardiovascular syphilis	1		1		1
027 Other forms of late syphilis	2		1	1	2
029 Syphilis, unqualified	1		1		1
051 Streptococcal sore throat	1		1		1
053.0 Septicaemia and pyaemia, streptococcus		1		1	1
063 Gas gangrene	1			1	1
080.0 Poliomyelitis specified as bulbar or polio encephalitis	1			1	1
080.3 Poliomyelitis - unspecified	1		1		1
083 Late effects of acute infectious encephalitis	1		1		1
140 Malignant neoplasm of lip	1			1	1
141 Malignant neoplasm of tongue	4		4		4
146 Malignant neoplasm of nasopharynx	1	1	2		2
148 Malignant neoplasm of pharynx, unspecified	1		1		1
150 Malignant neoplasm of oesophagus	5	1	6		6
151 Malignant neoplasm of stomach	25	14	33	6	39
152 Malignant neoplasm of small intestine, including duodenum	2		2		2
153 Malignant neoplasm of large intestine, except rectum	10	10	17	3	20
154 Malignant neoplasm of rectum	6	6	6	6	12
155 Malignant neoplasm of biliary passages and of liver (stated to be primary site)	5	5	5	5	10
157 Malignant neoplasm of pancreas	6	5	6	5	11
158 Malignant neoplasm of peritoneum		1	1		1
160 Malignant neoplasm of nose, nasal cavities, middle ear and accessory sinuses	1		1		1
161 Malignant neoplasm of larynx	2		2		2
162 Malignant neoplasm of trachea, and of bronchus and lung specified as primary	13	1	12	2	14
163 Malignant neoplasm of lung and bronchus, unspecified as to whether primary or secondary	3	1	3	1	4
170 Malignant neoplasm of breast		19	15	4	19
171 Malignant neoplasm of cervix uteri		5	3	2	5
174 Malignant neoplasm of uterus, unspecified		2	1	1	2
175 Malignant neoplasm of ovary, fallopian tube, and broad ligament	1	10	9	2	11
176 Malignant neoplasm of other and unspecified female genital organs		2	2		2
177 Malignant neoplasm of prostate	13		9	4	13
178 Malignant neoplasm of testis	1		1		1
179 Malignant neoplasm of other and unspecified male genital organs	1		1		1
180 Malignant neoplasm of kidney	7	1	5	3	8
181 Malignant neoplasm of bladder and other urinary organs	7	4	7	4	11
190 Malignant neoplasm of skin	1		1		1
193 Malignant neoplasm of brain and other parts of nervous system	1	3	3	1	4
195 Malignant neoplasm of other endocrine glands		1		1	1
196 Malignant neoplasm of bone (including jaw bone)		1	1		1
199 Malignant neoplasm of other and unspecified sites	5	8	10	3	13
forward	134	104	179	59	238

CHICAGO, ILL.

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	M	F	City	Out	Total
	134	104	179	59	238
201 Hodgkin's disease		1	1		1
203 Multiple myeloma (plasmocytoma)		1		1	1
204.0 Lymphatic leukaemia		4	3	1	4
223 Benign neoplasm of brain & other parts of nervous system		2	1	1	2
224 Benign neoplasm of endocrine glands		1	1		1
230 Neoplasm of unspecified nature of digestive organs		1	1		1
236 Neoplasm of unspecified nature of other genito-urinary organs	1		1		1
241 Asthma	7	3	10		10
252.0 Toxic diffuse goitre		1	1		1
252.1 Toxic nodular goitre		1	1		1
253 Myxedema and cretinism		1	1		1
260 Diabetes mellitus	12	5	14	3	17
273 Diseases of thymus gland		1		1	1
283 Active rickets	1			1	1
292.4 Aplastic anaemia		1	1		1
296 Purpura and other haemorrhagic conditions	1			1	1
298.1 Other diseases of spleen	1		1		1
304 Senile psychosis	1		1		1
322.0 Acute alcoholism	1		1		1
322.1 Chronic alcoholism	1		1		1
325.4 Mongolism		1	1		1
330 Subarachnoid haemorrhage	2		2		2
331 Cerebral haemorrhage	13	22	32	3	35
332 Cerebral embolism and thrombosis	6	3	6	3	9
334 Other and ill-defined vascular lesions affecting central nervous system	12	10	17	5	22
340.0 H. influenzae - Meningitis	1		1		1
340.2 Meningitis due to other specified organism	1	1	1	1	2
341 Phlebitis and thrombophlebitis of intracranial venous sinuses	1		1		1
342 Intracranial and intraspinal abscess	1		1		1
343 Encephalitis, myelitis, and encephalomyelitis (except acute infections)	1		1		1
345 Multiple sclerosis	2		1	1	2
350 Paralysis agitans	3		2	1	3
400 Rheumatic fever without mention of heart involvement	1	3	3	1	4
401.1 Active rheumatic endocarditis		1	1		1
401.2 Active rheumatic myocarditis	1		1		1
401.3 Active rheumatic fever with other and multiple types of heart involvement	3		3		3
415 Other myocarditis specified as rheumatic	1			1	1
416 Other heart disease specified as rheumatic	2	2	3	1	4
420.0 Arteriosclerotic heart disease so described	35	14	35	14	49
420.1 Heart disease specified as involving coronary arteries	124	42	147	19	166
420.2 Angina pectoris without mention of coronary disease	2		2		2
421.1 Chronic endocarditis of aortic value, not specified as rheumatic	1		1		1
421.4 Chronic endocarditis not specified as rheumatic	1		1		1
422.1 Other myocardial degeneration with arteriosclerosis	2	4	6		6
422.2 Other myocardial degeneration, others	19	23	32	10	42
430.0 Acute and subacute bacterial endocarditis		1	1		1
forward	395	254	521	128	649

	M	F	City	Out	Total
	395	254	521	128	649
431 Acute myocarditis not specified as rheumatic	1	1	2		2
432 Acute pericarditis specified as nonrheumatic		1		1	1
433.0 Functional disease of heart, heart block	1		1		1
433.1 Functional disease of heart, other disorders of heart rhythm	1	2	3		3
434.1 Congestive heart failure	6	5	10	1	11
434.3 Other and unspecified disease of heart	1	1	2		2
440 Essential benign hypertension with heart disease	6	6	8	4	12
441 Essential malignant hypertension with heart disease	2	2	3	1	4
442 Hypertensive heart disease with arteriolar nephro- sclerosis	11	5	12	4	16
443 Other and unspecified hypertensive heart disease	2	3	5		5
444 Essential benign hypertension without mention of heart	29	19	38	10	48
445 Essential malignant hypertension without mention of heart	1		1		1
447 Other hypertensive disease without mention of heart	1	1	2		2
450.0 General arteriosclerosis without mention of gangrene	89	54	129	14	143
450.1 General arteriosclerosis with gangrene	1			1	1
451 Acute aneurysm specified as nonsyphilitic and dissecting aneurysm	3		3		3
452 Other aneurysm, except of heart and aorta	1	1	2		2
453.1 Thrombo-angitis obliterans		1	1		1
454 Arterial embolism and thrombosis	1		1		1
456 Other diseases of arteries		1	1		1
460 Varicose veins of lower extremities		1		1	1
466 Other venous embolism and thrombosis		2	2		2
470 Acute nasopharyngitis	1	1	1	1	2
474 Acute laryngitis and trachetis		1		1	1
475 Acute upper-respiratory infection of multiple or unspecified sites		1	1		1
480 Influenza with pneumonia	4	1	3	2	5
481 Influenza with other respiratory manifestations, and influenza unqualified	1	2	3		3
483 Influenza with nervous manifestations, but without digestive or respiratory symptoms	2		2		2
490 Lobar pneumonia	5	3	6	2	8
491 Bronchopneumonia	16	11	24	3	27
492 Primary atypical pneumonia	2	1	2	1	3
493 Pneumonia, other and unspecified	1	1	2		2
502.0 Bronchitis with emphysema	1		1		1
502.1 Chronic bronchitis, other	5		5		5
510.1 Hypertrophy of tonsils and adenoids without mention of tonsillectomy or adenoidectomy		1		1	1
518 Empyaema		1	1		1
521 Abscess of lung		1		1	1
522 Pulmonary congestion and hypostasis	1	1	2		2
525 Other chronic interstitial pneumonia	1			1	1
526 Bronchiectasis	3	2	5		5
527.1 Emphysema without mention of bronchitis	3		3		3
527.2 Other diseases of lung and pleural cavity, other	1		1		1
532.1 Periodontitis (phorrhoea, inflammatory)	1		1		1
539.1 Diseases of oesophagus, other		1		1	1
540.0 Ulcer of stomach without mention of perforation	2		2		2
540.1 Ulcer of stomach with perforation	2		1	1	2

Forward

604 389 813 180 993

	M	F	City	Out	Total
	604	389	813	180	993
541.0 Ulcer of duodenum without mention of perforation	4	1	4	1	5
541.1 Ulcer of duodenum with perforation	6		5	1	6
544.0 Disorders of gastric secretion		1	1		1
545 Other diseases of stomach and duodenum	1		1		1
550 Acute appendicitis	1			1	1
551 Appendicitis, unqualified	2		2		2
560.3 Hernia of abdominal cavity without mention of obstruction, ventral (incisional)		1		1	1
570.0 Intestinal obstruction, without mention of hernia, Intussusception		1		1	1
570.2 Intestinal obstruction, without mention of hernia, Mesenteric infarction	1		1		1
570.3 Intestinal obstruction, without mention of hernia, Volvulus		1	1		1
570.5 Intestinal obstruction, without mention of hernia, Other	1	3	3	1	4
571.0 Gastro-enteritis between 4 weeks and 2 years	2	1	2	1	3
572.1 Chronic enteritis and ulcerative colitis, diverticulitis		2		2	2
572.2 Ulcerative colitis		1	1		1
577 Peritoneal adhesion	2	1	3		3
578 Other diseases of intestines and peritoneum	3		2	1	3
581.0 Cirrhosis of liver without mention of alcoholism	5	3	7	1	8
581.1 Cirrhosis of liver with alcoholism		1		1	1
584 Cholelithiasis	1	1	1	1	2
585 Cholecystitis with mention of calculi	2		1	1	2
586 Other diseases of gall bladder and biliary ducts		2	1	1	2
590 Acute neohritis	1		1		1
591 Nephritis with oedema, including nephrosis	2		2		2
592 Chronic nephritis	5	4	8	1	9
593 Nephritis not specified as acute or chronic	1			1	1
594 Other renal sclerosis	1	1	2		2
600.0 Pyelitis, pyelocystitis, and pyelonephritis	2		1	1	2
602 Calculi of kidney and ureter	1			1	1
603 Other diseases of kidney and ureter		3	2	1	3
606 Other diseases of bladder	1	1	2		2
610 Hyperplasia of prostate	12		5	7	12
611 Prostatitis	1		1		1
633 Other diseases of uterus		1		1	1
642.3 Eclampsia of pregnancy		1		1	1
678 Delivery with other complications of childbirth		1	1		1
692.1 Other cellulitis and abscess without mention of lymphangitis, of trunk	1			1	1
704.1 Pemphigus, other	1		1		1
722.0 Rheumatoid arthritis		1	1		1
750 Monstrosity	1		1		1
751 Spina bifida and meningocele		1	1		1
752 Congenital hydrocephalus	2	3	3	2	5
753.1 Other congenital malformations of nervous and sense organs, other		1	1		1
754 Congenital malformations of circulatory system		2	1	1	2
754.3 Interauricular septal defect	1		1		1
754.4 Other and unspecified malformations of heart	9	2	9	2	11
755 Cleft palate and harelip	1		1		1
756.2 Congenital malformations of digestive system, imperforate anus	2	1		3	3
Forward	680	432	894	218	1112

					21
	M	F	City	Out	Total
	680	432	894	218	1112
758.1 Chondrodystrophy	1		1		1
760.0 Intracranial and spinal injury at birth, without mention of immaturity	1	2	3		3
760.5 Intracranial and spinal injury at birth, with immaturity	1			1	1
762.0 Postnatal asphyxia and atelectasis, without mention of immaturity	4	1	4	1	5
763.0 Pneumonia of newborn, without mention of immaturity	2	1	2	1	3
763.5 Pneumonia of newborn with immaturity		1	1		1
764.0 Diarrhoea of newborn without mention of immaturity	1		1		1
768 Other sepsis of newborn		1		1	1
770.0 Erythroblastosis, without mention of nervous affection or immaturity	3	1	3	1	4
771.0 Haemorrhagic disease of newborn, without mention of immaturity	3	1	3	1	4
773.0 Ill-defined diseases peculiar to early infancy without mention of immaturity		1	1		1
774 Immaturity with mention of any other subsidiary condition	29	19	36	12	48
776 Immaturity unqualified	5	1	6		6
782.2 Tachycardia	1			1	1
782.4 Acute heart failure, undefined	2	1	3		3
784.5 Symptoms referable to upper gastro-intestinal tract, Haematemesis	1		1		1
790.1 Debility and undue fatigue	2		2		2
794 Senility without mention of psychosis	30	25	46	9	55
795.5 Ill-defined and unknown causes of morbidity and mortality, other, unknown and unspecified causes	5	1	5	1	6
E802 Railway accident involving other or unspecified person	2			2	2
E810 Motor vehicle traffic accident involving collision with train	2	1		3	3
E811 Motor vehicle traffic accident involving collision with street car		1		1	1
E812 Motor vehicle traffic accident to pedestrian	3	3	3	3	6
E822 Motor vehicle traffic accident involving overturning in roadway	1			1	1
E833 Motor vehicle traffic accident involving running off roadway	1		1		1
E853 Other falls from one level to another in water transport	1		1		1
E860 Accident to personnel in military aircraft	1			1	1
E880 Accidental poisoning by alcohol		1	1		1
E891 Accidental poisoning by motor-vehicle exhaust gas		1	1		1
E902 Other falls from one level to another	3	3	4	2	6
E903 Fall on same level	3	6	9		9
E910 Blow from falling object	1			1	1
E911 Accident caused by vehicle	1		1		1
E914 Accident caused by electric current	1		1		1
E916 Accident caused by fire and explosion of combustible material	1		1		1
E921 Inhalation and ingestion of food causing obstruction or suffocation	1	2	3		3

Forward

793 506 1038 261 1299

	M	F	City	Out	Total
	793	506	1038	261	1299
E925 Accidental mechanical suffocation in other and unspecified circumstances	1		1		1
E929 Accidental drowning and submersion	1		1		1
E932 Excessive cold	1		1		1
E936 Other and unspecified accidents	2		1	1	2
E951 Therapeutic misadventure in infusion or transfusion		1	1		1
E970 Suicide and self-inflicted poisoning by analgesic and saporific substances		1	1		1
E973 Suicide and self-inflicted poisoning by other gases		1	1		1
E975 Suicide and self-inflicted injury by submersion (drowning)	1		1		1
E976 Suicide and self-inflicted injury by firearms and explosives	1	1	2		2
E977 Suicide and self-inflicted injury by cutting and piercing instruments	2		2		2
E981 Assault by firearm and explosive	1		1		1
E982 Assault by cutting and piercing instruments		1	1		1
Totals	803	511	1052	262	1314

W.H. Hill, Esq., M.D., C.M., D.P.H.,
Medical Officer of Health,
City of Calgary, Alberta.

Dear Sir:

The following report of the activities of the Sanitation Division of the Health Department for the year 1951 is submitted for your consideration and approval.

GENERAL SANITATION

The Sanitary Inspectors have had an extremely busy year in their respective districts. Due to the tremendous increase of new houses being built in the outlying areas of the City and the consequent laying of sewer and water mains, a considerable number of investigations have had to be made regarding older homes in these areas and which are required to be connected to the mains. There has also been an increase in new businesses requiring permits from this department.

We were fortunate in having two new members added to the staff during the year. These men have been of great assistance to the department in coping with the many problems that have been presented.

The Royal Visit gave the Inspectors an opportunity to exercise very special precautions regarding the Luncheon which was served in the Corral. Every item of foodstuff was carefully scrutinized during its preparation, cooking, transportation, and serving. It was necessary for some of the Inspectors to work very long hours at this time but when it was all over they were satisfied that the job had been well done. The department received the utmost of co-operation from the caterers for which we are duly appreciative.

During the week of the Stampede, three Inspectors were delegated to the Exhibition Grounds and constant supervision of eating establishments was exercised. Due to educational work done in past years, a very considerable improvement was noted. We must express our appreciation to the management of the Fair Grounds for their excellent co-operation with this department in raising the standards of the booths and dining halls.

The following table gives details of the work for the year.

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Totals
Inspections made	1185	1173	1032	1280	1490	1133	2251	1606	1101	1668	1798	1592	17309
Notices - written	8	5	11	11	24	16	26	12	5	19	16	7	160
Notices - verbal	210	215	242	344	344	266	564	393	220	382	404	222	3806
Complaints received	34	41	56	74	65	71	84	61	63	76	59	46	730
Complaints justified	22	27	50	58	53	60	77	41	46	61	50	38	583

QUARANTINE

The work of the Quarantine Officer has again increased considerably over the previous year. The duties of this officer with regard to sanitary inspection in the outlying areas have been satisfactorily taken care of.

The following table is a detailed report of this work for the year.

	Jan	Feb	Mar	Apl	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Totals
Houses quarantined	50	25	40	54	76	111	46	17	19	22	61	80	601
Released from quarantine	46	29	41	46	56	123	52	16	12	18	42	81	562
Patients moved to hospital	50	27	32	49	73	110	46	13	18	22	38	74	552
Other calls made	111	105	126	115	115	102	436	135	136	95	143	107	1726

FOOD INSPECTION

The duties pertaining to this officer have been satisfactorily attended to. A detailed report of the year's work follows.

Food Condemned:

150 lbs. deep fry fat
1200 lbs. flour
60 lbs. hamburger
17 chickens

54 lbs. fruit
75 lbs. vegetables
40 lbs. mixed candy
375 lbs. of meat damaged in transit

MEAT INSPECTION

This service has been attended to by the department's meat inspector and does not materially differ from the previous year. A detailed report follows.

	Jan	Feb	Mar	Apl	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Totals
SUBMITTED													
Beef	218	181	217	177	245	272	215	234	200	239	249	228	2675
Veal	162	139	119	85	116	125	145	137	168	190	163	175	1724
Hogs	115	88	97	100	117	91	86	89	120	182	165	123	1373
Sheep and lamb	14	3	3	4	2	19	18	37	5	17	17	6	145
CONDEMNED													
Beef	$\frac{1}{4}$	$1\frac{1}{2}$	6	$1\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	3	2	-	$\frac{1}{4}$	$1\frac{1}{4}$	-	$18\frac{1}{2}$
Veal	1	1	$\frac{1}{4}$		1	-	-	-	-	1	2	1	$7\frac{1}{4}$
Hogs	-	-	-	-	-	-	-	1	-	1	$\frac{1}{4}$	-	$2\frac{1}{4}$
Sheep and lamb	-	-	-	-	-	-	-	-	-	$1\frac{1}{4}$	1		$2\frac{1}{4}$

Portions condemned:

Beef heads and tongues	128	Veal livers	36
Beef hearts	42	Hog heads and tongues	149
Beef livers	344	Hog hearts	36
Veal heads and tongues	6	Hog livers	176
Veal hearts	7	Sheep livers	21

The two Inspectors responsible for this work have had a very active year. Continual educational work is carried on with producers and plant personnel and in this connection it is gratifying to record that a marked improvement is shown in bacteriological tests of retail milk. Due to the efforts of the Dairy Plant Inspector, all the plants have installed some new equipment and one milk company commenced construction of a complete new plant.

The Dairy Farm Inspector is continually pressing for vigilance in the cleaning and sterilizing of milking equipment on the farm. His efforts in this direction are producing favourable results.

I again wish to extend on behalf of the department, our sincere thanks and appreciation to the following for their co-operation and assistance.

Mr. J.B. Moore, Inspector, Milk Control, Public Utilities Commission
Dr. D. Shute, Director, Provincial Laboratory, Southern Branch
Dr. H.C. Storey, Chief Inspector, Dominion Government,
Department of Agriculture, Health of Animals Branch
Mr. Graham Anderson, District Agriculturist, Provincial Department
of Agriculture
Union Milk Company Ltd.
Palm Dairies Ltd.
Model Dairies Ltd.
Co-operative Milk Co.

A detailed report follows:

Of the 4,523 methylene blue reductase tests applied to producers' milk samples, 69.0% were grade one, 11.7% were grade two, and 19.3% were grade three

Of the 4,517 sediment tests applied to samples of producers' milk, 99.2% were good, .4% were fair, and .4% were bad.

Sediment tests applied to 502 samples of pasteurized milk taken at random from distributors' wagons all proved to be good.

The phosphatase test was applied to 570 samples of pasteurized milk taken at random from distributors' wagons and all but one proved to be efficiently pasteurized.

Butterfat tests were applied to 576 samples of milk and cream with the following average results for the year:

Standard milk	3.52%	Nursery milk	3.49%
Jersey milk	4.38%	Homogenized milk	3.5%
Sub-standard cream	10.21%	Whipping cream	35.0%

During the year, regular plate counts were made on 509 samples of pasteurized milk, also 509 tests for B. coli were made.

According to information supplied by the Public Utility Commissioners for the Province of Alberta, who control the economic phase of the milk supply in the several cities of Alberta, the sales of milk and cream in Calgary were as follows:

Total sales of milk (all pasteurized - voluntarily)	15,932,017 qts.
Total sales of cream " " "	1,469,654 qts.

No unpasteurized milk was sold in the City. The average daily consumption of milk per capita was 0.68 pint, a decrease of 0.07 pint compared with 1950. The average daily consumption of cream per capita was 0.062 pint, a decrease of .012 pint as compared with 1950.

MILK AND DAIRY INSPECTION

	Jan	Feb	Mar	Apl	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Totals
Inspections in country	41	32	29	39	46	62	92	32	53	62	96	55	639
Inspections in city	52	46	42	42	45	41	39	17	24	30	29	88	495
Complaints received	0	1	0	0	0	1	2	1	2	0	2	1	10
Complaints justified	0	1	0	0	0	1	2	0	1	0	2	1	8
Notices issued - written	37	58	46	61	116	62	295	52	98	20	93	72	1011
Notices issued - verbal	45	41	23	27	34	39	48	21	42	28	41	31	420
Licenses suspended	1	1	1	1	6	8	13	4	3	1	2	2	43
Permits issued to dairymen	322	0	0	0	0	0	0	4	3	4	1	0	334
" " milk vendors	5	0	0	0	0	0	0	0	0	0	0	0	5
" " cowkeepers	33	0	0	0	0	0	0	0	0	0	0	0	33
" "pasteurizing plants	5	0	0	0	0	0	0	0	0	0	0	0	5
Producers' Sediment Tests	292	334	506	526	522	499	543	132	298	113	490	262	4517
" Reductase "	292	334	506	526	522	499	548	132	299	113	490	262	4523
" Microscopic "	2	2	0	0	0	0	0	0	0	0	0	2	6
" total samples	584	668	1012	1052	1044	998	1091	264	597	226	980	524	9040
Milk condemned lbs.	0	80	0	0	0	0	240	80	480	0	80	160	1120
Milk cans condemned No.	0	0	2	32	49	2	3	1	1	0	12	2	104
Retailers sediment tests	48	48	48	44	44	36	48	48	48	48	40	40	540
" specific gravity tests	48	48	48	44	44	46	44	44	40	40	48	48	542
" butter fat tests	48	48	48	48	48	48	48	48	48	48	48	48	576
" phosphatase tests	42	48	48	48	48	48	48	48	48	48	48	48	570
" samples	78	102	96	104	97	84	90	90	96	103	92	96	1128
Bacteriological tests	30	54	48	56	49	36	42	42	48	55	44	48	502
Total milk & cream samples	662	770	1108	1156	1141	1082	1181	354	693	329	1072	620	10168
Water samples taken	1	0	0	1	3	2	0	1	3	0	0	1	12

CONCLUSION

In conclusion, I would like to thank the members of the Sanitation Staff for the efficient manner in which their duties have been performed. May I also express my appreciation to the Office Staff for the very able way in which the numerous activities of this branch are tabulated and recorded.

To you, Sir, on behalf of the Sanitary Inspectors, many thanks for your advice and instruction, which is deeply appreciated by us all.

Respectfully submitted,

W. PILLIDGE, C.S.I.(C.),
Chief Inspector.

REPORT ON CHILD HYGIENE CLINICS
(Infant and Pre-School)

CALGARY, ALBERTA
For the year 1951

W.H. Hill, Esq., M.D., C.M., D.P.H.,
Medical Officer of Health,
Calgary, Alberta.

Dear Dr. Hill:

I herewith submit the report of the Infant and Pre-School Clinic for 1951.

Attendance: Infants 8,359, Pre-School 3,175. Total attendance 11,534

176 cases were from outside the City. These do not have the services of the doctors.

1,382 complete physical examinations were given to children between the ages of 3 and 4 years. Of these 967 were found to be O.K. 598 missed appointments.

New cases: Infants 1,890, Pre-School 773. Total 2,663

Auxiliary	Attendance at North Hill Clinic	546
Clinics:	Attendance at Killarney Clinic	680
	Attendance at Currie Barracks	54

A new branch clinic was opened in the Killarney District in February under the auspices of the Junior Service League. This is held twice a month and some of the members of the League assist at the clinic.

The Currie Barracks Clinic discontinued in May for the remainder of the year because of repairs to the building. They are starting again in the New Year.

Bowness and Montgomery have been taken into the Mountain View Health Unit and our charts have been handed over to them.

Present enrollment	Infants	2,977	
at all City Clinics:	Pre-School	<u>7,326</u>	Total <u>10,303</u>
	Discharged	1,779	
	Died	3	

Number interviewed by doctors during year	2,880
Number interviewed by Dr. Hill	23
Number interviewed by Dr. Allan	1,315
Number interviewed by Dr. Hewson	1,478
Number interviewed by Currie doctor	64
Number interviewed by nurses	8,654
Visits made to homes	8,227
Visits made to private hospitals	12
Insulin investigations	14
Pre-Natal visits referred to V.O.N.	17
Other visits	75

Feedings: Breast 1,437, Bottle 4,166, Other 2,756

REPORT ON CHILD HYGIENE CLINICS (cont'd)

Defects:

Nose and throat	475	Hernia	92
Teeth	434	Intestinal	69
Skin	190	Orthopedic	114
Phimosis	73	Chest	200
Eyes	169	Mentally deficient	4
Ears	56	Congenital malformation	3
Nutrition	9		

Infectious diseases found at Clinic:

Rubella	6	Scarlet Fever	1
Measles	4	Mumps	1
Chickenpox	3	Whooping Cough	1

Of the above 34 were referred to their family physician for corrective treatment.

Dental: Number of cases treated 1,209. Appointments missed 146.

Eye, Ear, Nose and Throat:

Number of operations for removal of tonsils and adenoids	67
Refractions for glasses	40
Eye treatments	657
Ear treatments	270
Nose and throat treatments	141
Number of individual cases treated	242

Students: From Calgary General Hospital	10 for one month each
"	35 for half day each
From Holy Cross Hospital	1 for one half day
From University of Alberta Hospital	2 for one half day each
From Nursing Aides School	222 for one half day each
Voluntary Workers	35 for one half day each

Donations: We are indebted to the Good Cheer Club, the Friendship Knitting Club and many private individuals for clothing and other supplies. Also to various firms for cod liver oil and other infant products.

Letters: 11,435 have been forwarded in connection with clinic work.

Staff: In May, June Polley resigned to be married. Margaret Sproule, R.N., B.Sc.N. was taken on the staff.

Outside Activities: In September, Marjorie Maynes took her First Aid Course and got an Examiner's and also an Instructor's Certificate. In November, M. Lavell spoke to the Junior Service League and in September to the amalgamated Home and School Associations.

Respectfully submitted,

M.F. LAVELL, R.N.,
Nurse in Charge
Child Hygiene Clinic.

W.H. Hill, Esq., M.D., C.M., D.P.H.,
 Medical Officer of Health,
 City of Calgary, Alberta.

Dear Sir:

The following report sets out the work accomplished by the School Health Division in the City school system during the year 1951 and is presented for your information.

During the school year a total of 5710 children received a full medical examination designed to assess their health state. This figure shows a reduction of 116 from the previous year. The present total school enrolment is just over 20,000 pupils. 28.5% of the enrolled pupils were examined during the school year. These periodical medical examinations have a very definite health educational value in addition to the mere search for defects for observation or treatment. In order to derive benefit for all concerned it is important that a parent be present at the time of the examination to hear the advice given to the child and to see it is carried out. The parents also are afforded the opportunity of benefiting from any discussion on health topics. Invitations to attend medical examinations were sent out to 4591 parents in all grades except High School. This figure represents 80% of the total examined. Attendance at the examinations by parents, particularly in the lower grades, is very encouraging. A total of 3005 parents, or 65% invited, availed themselves of the opportunity of personally discussing their child's health state with the doctors. Parents unable to be present invariably reply to the invitation expressing interest in the examination and explaining their inability to attend on account of working, or having younger children requiring attention. Where the parent does not attend, a brief summary of the findings at the examination was completed and sent home with the child. Where a physical defect is noted during the examination the salient points are recorded on a special referral form to the patient's own private physician, and handed to the parent, sent home by letter or with the child, according to circumstances.

At each examination the nurse discusses the immunization state of the child with the parent. A total of 1811 or 31.5% were not protected against smallpox with a recent successful vaccination. 410 children had vaccinations which were outdated.

Inoculation against diphtheria is generally well accepted by the public. However, on checking this protective state 1002 or 17.5% had never been immunized. In addition, 772 children were found who had received initial protection but were in need of a reinforcing dose.

These figures compare very closely with those recorded during the previous year with a slight improvement in the anti-diphtheria protection state.

From the results of the medical examination each child has been placed in an arbitrary health category somewhat similar to the one in use expressing his academic standing. Three grades are used: A - good, B - Fair, C - poor. A total of 4675 pupils or 82% were considered to satisfy the standards for an A grading. 855 or 15% were felt warranted a B grading and 180 or 3% had a poor rating.

Defects noted by the physicians conducting the school examinations are summarized in the following table:

<u>Defects</u>	<u>Number</u>	<u>Percentage of total examined</u>
Anaemia	66	1.2
Cardiac	47	.8
Pulmonary	54	.9
Abdominal	4	.07
Hernia	3	.06
Genitalia	8	.14
Tonsils and adenoids	501	8.8
Orthopaedic	122	2.1
Feet	258	4.5
Eyes	258	4.5
Ears	33	.6
Dental	999	17.5
Endocrine	13	.2
Nervous system	6	.1

Resulting from these medical examinations 554 pupils or 9.7% were referred to the family physician, either on account of some specific defect noted for which treatment was warranted, or for further investigation. The private physicians co-operate very well with the Health Department in completing the referral slips and returning them for further notation on the medical history sheet. Eyes and tonsils account for the greater number of referrals to the private physicians.

The afternoon clinics held in the City Hall continue to be well attended. This clinic is used for special referral cases by the nurses and serves also as a minor ailments clinic. Many early skin conditions, eye ailments and minor injuries, etc. are referred to the physician for his advice and disposal. Thus many minor conditions which would otherwise never be seen by a doctor have access to immediate advice. It is felt that this clinic eliminates many of the hit and miss or household remedies in treatment, with subsequent saving in time lost from school. 1645 children attended the clinic, many are accompanied by a parent. Following examination, 246 were referred to their own physician for treatment.

The following is a summary of the work performed by the nurses:

Interview of admission		Exclusions from school:	
following illness	707	Suspect communicable disease	262
		Ringworm	24
Communicable diseases:		Scabies	33
Measles	1250	Impetigo	203
Scarlet Fever	286	Other reasons	766
Whooping Cough	53	First aid treatments in schools	6692
Chickenpox	566	Phone calls and notes	10740
Mumps	720	Dental appointments made	7752
Defects:		Conferences with pupils	27388
Vision	1537	Conferences re pupils with	
Hearing	85	Parents	1714
Suspected unhealthy tonsils		Teachers	6308
and adenoids	376	Others	394
		Total home visits	2822
Class health talks given	387	Referred to medical examiner	2328
		Medical examinations assisted	5710

1951 was an epidemic year for measles in the City. There was also a high rate of chickenpox and mumps. Scarlet fever cases recorded showed little change from the previous year.

Inoculation summary performed in the schools:

Vaccinations against smallpox	1814
Inoculations against diphtheria	2340
Series completed	417

Immunization performed by the nurses in schools has taken quite a rise and is more than double that of the previous year. With the city steadily increasing in size, parents apparently find it less convenient to attend the central Immunization Clinic and many prefer to wait till the nurse organizes this service in the school.

During the year the examining staff of physicians in the schools was raised from two to four. Dr. Agnes O'Neil, formerly associated with the Vancouver Metropolitan Health Department, commenced work on a part time basis in September 1951. Dr. Robert Woolstencroft, a local physician, commenced work in October.

The school nursing staff was increased from twelve to fourteen nurses. This was occasioned by the opening of new schools and a further rise in the school population figures. Miss P. Chambers and Miss N. White commenced duty in September. Miss D. Grad joined the Department in February 1951 and is engaged in the supervision of the schools administered by the Calgary Separate School Board. Miss Laura Edwards resigned from the staff to be married and her working district was taken over by Miss G. Jones.

The vitamin supplement tablets were again made available during the year to parents at cost. These tablets are easily swallowed and are a most popular method of presenting a vitamin dietary supplement.

Milk was distributed free to children who appeared to be in need of extra nourishment. The cost to the Department totalled \$1,097.57.

Over 50 school children were supplied with glasses free of charge where economic circumstances so warranted following investigation. The cost for this item amounted to \$298.64.

The following table shows corrective treatments which have been done on school children by their family physicians during the period 1st September 1950 to 30th June 1951.

Operations:

Tonsils and adenoids	411	Skin lesions	281
Appendectomies	144	Anaemia	174
Hernia	11	Nutritional disturbances	67
Others	28	Cardiac conditions	62
Fractures or injuries	298	Emotional and behaviour	
Orthopaedic conditions	204	problems	159
Refractions	978	Miscellaneous	90
Other eye conditions	232		
Ear conditions	205	Total	3340

School Dental Statistics:

<u>Total fillings</u>	8010	Dental Inspections:	
Permanent teeth	5788	Number inspected	10393
Deciduous teeth	2222	Requiring treatment	6795
<u>Total extractions</u>	3504	Need nothing at present	796
Permanent teeth	259	Require prophylaxis	367
Deciduous teeth	3245	Number O.K.	2803
Bases	3970	Defective permanent teeth	7126
Prophylaxis and scaling	308	" deciduous teeth	5472
X-rayed	90	Total Health Talks given	26
Number of teeth treated	17004		
Appointments made	9713		
Appointments kept	7453		
Refused treatment	55		
Extras	384		

It will be observed from the figures that out of 10393 pupils inspected only 2803 (at the time of inspection) were considered to be dentally fit. This represents only 26.9% of the total. This figure has remained very constant for the last three years. The school nurses make the dental appointments for pupils. They experience the utmost difficulty in trying to satisfy the numerous requests for dental appointments made by parents following dental inspection. Nevertheless, only 77% of appointments made were kept.

Dr. Kathleen Stack joined the staff of dentists in February, bringing the total once more to four in the Dental Clinic.

To further the work of the preventive dentistry the Department obtained the services of a Dental Hygienist immediately after the Act recognizing the Dental Hygienist was given assent in the Legislature. Mrs. Joan Engman joined the Department in December 1951 to become the first worker in this field in the Province of Alberta. This appointment was made possible on the basis of a new service which qualified for assistance under the Federal Health Grant.

The success of the work mentioned in this report is largely attributable to the splendid spirit of co-operation and zeal existing between all members of the staff.

Respectfully submitted,

LESLIE C. ALLAN, M.B., Ch.B., D.P.H.,
Assistant Medical Officer of Health.

CALGARY TUBERCULOSIS ASSOCIATION

W.H. Hill, Esq., M.D., C.M., D.P.H.,
 Medical Officer of Health,
 Calgary, Alberta.

Dear Sir:

It is my pleasure to submit a report of the work done at the Chest Clinic for the year 1951. This clinic is located in the Public Health Department at the City Hall. It is sponsored by the Calgary Kinsmen's Club and financed by the sale of Christmas seals.

1.	<u>Number of clinic sessions held</u>	50
	(a) Number of patients examined	337
	Adults	290
	Children	47
	(b) Number of new cases of Tuberculosis:	
	Active	8
	Inactive	13
2.	<u>Tuberculin Tests</u>	
	(a) Number given in office	733
	Positive reactors	213
	No reaction	520
	(b) Number given outside office	1082
	Positive reactors	236
	No reaction	846
3.	<u>Office calls</u>	1652
4.	<u>Home visits made</u>	1192
5.	<u>Miscellaneous calls</u>	349

Assistance to Needy Families

During the year twelve families have received clothing, food supplies and cod liver oil. At Christmas time sixteen families received food hampers. Toys were purchased for thirty-four children. At this date, twenty families are receiving assistance with their milk supply.

Considerable time was spent during the months of May, June and July doing follow-up work for the Mobile Unit.

The annual sale of Christmas seals, operated by the Calgary Kinsmen's Club, has been completed and the sum of \$48,072.90 was realized therefrom.

I would like to say how fortunate we are to be located in the Public Health Department and to have your co-operation and advice so willingly and readily given at all times.

May I take this opportunity to thank you, Dr. Hill, and your staff, for your great effort and work in the campaign against Tuberculosis.

Yours very truly,

OLIVE A. MARSHALL, R.N.,
 Nurse in Charge
 City Hall Chest Clinic.

FINANCIAL STATEMENT

HEALTH DEPARTMENT (General)

	<u>1951</u>	<u>1950</u>
Salaries	\$48,733.89	\$43,273.48
Sera, vaccine, etc.	174.23	275.88
Disinfectants	181.11	212.61
Laboratory Charges (to City Laboratory)	1,200.00	1,200.00
Auto maintenance and allowances	4,450.23	3,839.55
Sundries	1,620.63	1,065.02
Printing and stationery	637.31	296.85
Postage (for the whole department)	609.05	367.27
Transit System passes and tickets	624.94	493.46
Isolation Ambulance hire	180.50	280.00
Milk inspection expenses	867.87	503.67
Milk to undernourished and sickly	1,746.97	1,245.88
Meat inspection expenses	63.65	60.44
Office equipment	642.72	397.13
New equipment (automobile) annual payment	531.42	311.56
Radio broadcasts	602.93	
	<u>\$62,867.45</u>	<u>\$53,822.80</u>

SCHOOL MEDICAL AND DENTAL SERVICES

Salaries	\$71,528.77	\$57,577.22
Medical and Dental supplies and equipment	3,179.17	2,985.51
Glasses for indigent school children	298.64	296.89
Milk for undernourished school children	1,097.57	2,968.74
Transit System passes and tickets	776.95	557.78
Auto maintenance and allowances	1,620.61	1,568.74
Printing and stationery	669.44	732.17
New equipment (Automobile) annual payment	406.65	406.65
	<u>\$79,577.80</u>	<u>\$67,093.70</u>

INFANT AND PRE-SCHOOL CLINIC

Salaries	\$ 8,853.48	\$ 7,754.11
Transit System passes and tickets	209.10	188.10
Operations and treatments (E.E.N. & T. and Dental)	3,974.92	3,809.94
Sundries	139.95	45.03
Automobile allowance (Garage Rent for one)	342.72	84.00
New equipment (automobile) annual payment	455.63	
	<u>\$13,975.80</u>	<u>\$11,881.18</u>

SUMMARY

Health Department (General)	\$62,867.45	\$53,822.80
School Medical and Dental Services	79,577.80	67,093.70
Infant and Pre-School Clinic	13,975.80	11,881.18
	<u>\$156,421.05</u>	<u>\$132,797.68</u>

Population (estimate)	129,060	106,000
Per capita expenditure	121.2¢	125.2¢

EXPENDITURE FOR PAST FIVE YEARS

	<u>1951</u>	<u>1950</u>	<u>1949</u>	<u>1948</u>	<u>1947</u>
Total	\$156,421.05	\$132,797.68	\$128,013.61	\$111,547.31	\$101,806.64
Per capita	121.2¢	125.2¢	120.7¢	111.4¢	101.7¢

Appropriation for 1951 was \$162,025.09 Expended \$156,421.05

Credit balance for the year 1951 was \$5,604.04

Received from Government Grants \$27,537.60

